

Appendix F. Treated area estimate for perimeter gardens

Carbaryl has a use pattern that is a treatment for ‘ornamental gardens around buildings’ and that the width of application is 6 ft. Using the urban watershed constructed in Appendix E, an estimate of the fraction of the watershed that would be treated in the use pattern can be estimated. If we assume that the perimeter garden extends around each house in the watershed (Figure F-1), except around the driveway, the total length of the garden would be 135 feet. Assuming a 6 ft width, the area of the garden is 812 ft². Using the previously constructed urban watershed from Appendix E, we have 58 houses, so the total area of the gardens in the watershed is 47,096 ft², and the fraction of the watershed in perimeter gardens is 0.044. (4.4%)

Perimeter Flower Bed Treatment

$$\begin{aligned} &1.6 \times 2 = 63.2 \text{ ft (two sides)} \\ &(31.6 + 12) \times 2 = 87.2 \text{ ft (back)} \\ &\quad -15 \text{ ft (driveway)} \\ &135 \text{ ft (length)} \\ &\quad \times 6 \text{ ft (width)} \\ &812 \text{ sq. ft.} \\ &\quad \times 58 \text{ houses} \\ &4,712 \text{ sq ft (watershed)} \\ &\div 1,076,390 \text{ (total watershed)} \\ &0.044 \text{ (fraction of garden} \\ &\quad \text{in watershed)} \end{aligned}$$

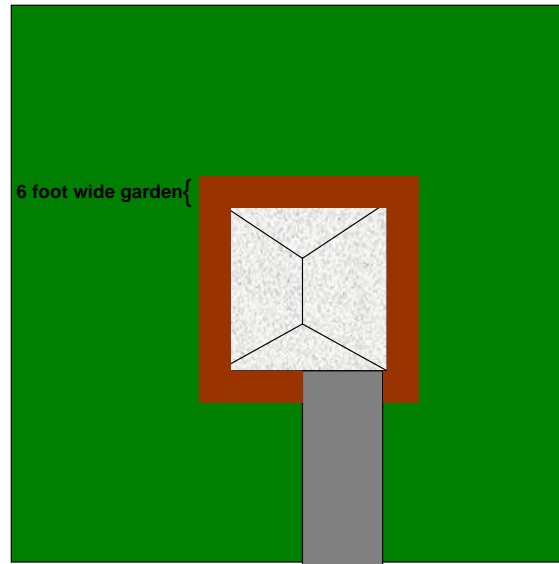


Figure F-1. Schematic for estimating the area per lot and the fraction of the watershed in perimeter gardens for the assessment of the perimeter garden use pattern for carbaryl.